

JPEO-CBD



JPM Decontamination Advanced Planning Brief to Industry

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- **Program Overview**
- **Warfigther Needs**
- **Acquisition Strategy**
- **Technical Challenges**
- **Upcoming Business Opportunities**
- **Contacts**



Program Overview

- **Remove or Neutralize Chemical, Biological and Radiological Contamination From Personnel, Equipment, Facilities and Terrain.**
- **Decon Acquisition Programs**
 - **Joint Service Family of Decontamination Systems (JSFDS)**
 - **Joint Service Sensitive Decontamination System (JSSDS)**
 - **Joint Platform Interior Decontamination (JPID)**



- **Personnel/Skin**
 - **Joint Service Personnel/Skin Decontamination System (JSPDS)**
- **Equipment, facilities and terrain**
 - **Joint Service Man-Portable Decontamination System (JSM-PDS)**
 - **Joint Service Transportable Decontamination System (JSTDS)**
 - **Joint Service Stationary Decontamination System (JSSDS)**



- **Decontamination of Sensitive, High Dollar Value, Mission-Critical Equipment**
 - Sensitive – Cannot Be Decontaminated With Traditional Decontamination Solutions and Processes
 - Over \$500
- **Increment I – Small Scale/ Closed Loop**
 - Night Vision Goggles
 - Computers
- **Increment II – Large Scale**
 - TBD



- **Decontaminants and Applicators That Will Decontaminate:**
 - Aircraft, Vehicle, Mobile Maintenance Facilities, and Ship Interiors Without Degrading Those Systems.
- **Increment I – Static**
 - Decontaminate During Refueling / Re-supply / Re-arming
- **Increment II – Dynamic**
 - On the Move



Warfighter Needs

- **Effective**
 - Chemical Agents
 - Biological Agents
 - Toxic Industrial Materials (TIMs)
 - To a “Safe” Level
- **Reduced Logistics**
 - Less/No Water
 - Reduce Waste Byproducts
 - Smaller/Lighter/Less Consumables
 - Multi-use/Dual Use
- **Compatible with**
 - Detectors
 - Petroleum/Oil/Lubricants
 - Materiel
 - Other Decontaminants/Applicators



Warfighter Needs (cont)

- **Reliable/Available/Maintainable (RAM)**
- **Easy to use**
 - Set up
 - Prepare
 - Operate
 - Minimal Training



Acquisition Strategy

- **Looking for Industry off the Shelf Solutions**
- **An 80% Solution Is Better Than None**
- **Evolutionary Acquisition Strategy**
- **Spiral or Incremental Development Depending on Program**
- **Funding Is Being Worked to Fully Fund the Program**



Technical Challenges JSFDS

- **JSPDS**
 - Effective Against Chemical and Biological Agents and TIMs
 - Use in Operating Temperature Extremes (-25°F to 130°F)
 - 3-5 Year Shelf Life at Storage Temperatures of -28°F to 160°F
 - Packaging Durable for Individual Carry Yet Easy to Open
 - FDA Approval
 - Wound Decontamination
 - Mortuary Affairs



Technical Challenges JSFDS

- **JSM-PDS/JSTDS/JSSDS**
 - **Effectiveness**
 - Against Broad Spectrum of Agents (Chemical, Biological, TIM)
 - On Vast Variety of Materials (Polymers, Composites, Metals, Etc)
 - In Operating Temperature Extremes -25°F to 120°F
 - **Decontaminant Compatibility With**
 - Vast Variety of Materiel Assets That Must Be Decontaminated
 - Protection Equipment (No Protective Capability Degradation)
 - Detection Devices (No False Positives, Negatives, Damage)
 - Other Decontaminants, (e.g. HTH, STB, DF-200)
 - Petroleums, Oils, and Lubricants
 - Other Materiel That May Be Exposed to Decontaminants
 - **Applicator Compatibility With Multiple Decontaminants**
 - **Decontaminant Shelf Life (5-10yr) When Stored at -28 to 160°F**
 - **Containment/disposal (Recycling) of Runoff**



Technical Challenges JSSED

- **Effectiveness**
 - Against Broad Spectrum of Agents (Chemical, Biological, TIM)
 - To a Very Low Level – Safe for Human Contact
 - Solvent Regeneration
 - Reuse to Reduce Cost and Logistics
- **Material Compatibility**
 - Silicone
 - Plastics
 - Polymers
 - Others
- **Size and Weight**
 - Fit on a 463L Pallet
 - 500 lbs



Technical Challenges JPID

Effectiveness

- Against Broad Spectrum of Agents (Chemical, Biological, TIM)
- On Vast Variety of Materials (Polymers, Composites, Metals, Etc)
- In Operating Temperature Extremes -25°F to 120°F

- **Material Compatibility**

- Aircraft and Vehicle Interiors Have Large Range of Material and Different Variety of Equipment
- Aircraft Flight Certification Process

- **Size and Weight**

- Transportability - 463L Pallet
- Inside of Small Entry Hatches

- **Reliability of Decontamination Process**

- Must Work Every Time Since Efficacy Is a Challenge to Verify



- **Aqueous Decontaminants**
 - Request for Proposal 3QFY04
 - R&D With Production Options (up to TBD)

- **JSPDS Increment II**
 - Technology Readiness Assessment 1QFY06

- **JSM-PDS**
 - Increment I RFP 1QFY05
 - R&D With Production Options (up to TBD)
 - Increment II RFP TBD

- **JSTDS Small-Scale**
 - Aqueous or Non Aqueous System RFP 4QFY05
 - R&D With Production Options (TBD systems)



Upcoming Business Opportunities JSFDS

- **JSTDS Large-Scale**
 - Increment I RFP 1QFY05
 - R&D With Production Options (up to 1000 systems)
 - Increment II RFP 1QFY07
 - R&D With Production Options (up to TBD systems)
- **JSSDS**
 - Increment I RFP FY06
 - R&D With Production Options (up to TBD systems)
- **Other**
 - Performance Based Logistic – TBD
 - Partnering Opportunities (e.g. Logistics Support to Commercial Manufacturer's)



Upcoming Business Opportunities JSSED/JPID

- **JSSED**

- Increment I RFP 1QFY05
 - System Integration/prototypes/testing
 - Low Rate Initial Production Option (30 Systems) and
 - Full Rate Production Options (up to 770 Systems)
- Increment II RFP TBD

- **JPID**

- Market Analyses 4QFY04
- Industry Day 1QFY05
- Technical Readiness Evaluation 1QFY05
- Increment I RFP 4QFY05
 - R&D With Production Options (up to TBD systems)
- Increment II RFP TBD



Points of Contact

- **Joint Service Family of Decontamination Systems**
 - Victor Murphy, Joint System Manager
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- **Joint Service Sensitive Equipment Decontamination**
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- **Joint Platform Interior Decontamination**
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